

SEQUENCE LISTING

<110> Zauderer, Maurice  
Evans, Elizabeth E.  
Borrello, Melinda A.

<120> Gene Differentially Expressed in Breast Cancer and  
Encoded Polypeptides

<130> 1821.0040001

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<150> 60/194,463

<151> 2000-04-04

<160> 84

<170> PatentIn Ver. 2.1

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atcaccaaca gccgtcctnc ctg 323

<210> 26  
<211> 389  
<212> DNA  
<213> Homo sapiens

<400> 26  
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cgcatcgtgg tggagtactg tgaaccctgc ggcttcgagg cgacctacct ggagctggcc 120  
agtgtgtgga aggagcagta tccgggcatc gagatcgagt cgcgcctcgg gggcacagggt 180  
gcctttgaga tagagataaa tggacagctg gtgttctcca agctggagaa tgggggcttt 240  
ccctatgaga aagatctcat tgaggccatc cgaagagcca gtaatggaga aacctagaa 300  
aagatcacca acagccgtcc tccctgcgtt catcctgttg actgcacagg acttctgggt 360  
tcctngttct gttcttgggg ttccaaact 389

<210> 27  
<211> 460  
<212> DNA  
<213> Homo sapiens

<400> 27  
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aggcgacct cctggagctg gccagtgtg tgaaggagca gtatccgggc atcgagatcg 120  
agtcgcgcct cgggggcaca ggtgcttttg agatagagat aaatggacag ctggtgttct 180  
ccaagctgga gaatgggggc tttccctatg agaaagatct cattgaggcc atccgaagag 240  
ccagtaatgg agaaacccta gaaaagatca ccaacagccg tcctccctgc gtcactctgt 300  
gactgcacag gactctgggg tctgtcttct ggttctnngg gtccaaaact tgggtcttcc 360  
ttttgggcct gcttgggaact ttcccctggc tcnttttccc caatttagct cccttagnca 420  
aaaagaanct tgggcttcan atttgnctt ttgggaaaag 460

<210> 28  
<211> 436  
<212> DNA



<213> Homo sapiens

<400> 28

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agcagtatcc gggcatcgag atcgagtcgc gcctcggggg cacaggtgct ttgagataga 120  
gataaatgga cagctggtgt tctccaagct ggagaatggg ggctttccct atgagaaaga 180  
tctcattgag gccatccgaa gagccagtaa tggagaaacc ctagaaaaga tcaccaacag 240  
ccgtcctccc tgcgtcatcc tgtgactgca caggactnac tctgggttcc tgctctgttc 300  
tggggtccaa accttgggtc tcactttggg cctgctggga agctccccct gcctcttttc 360  
ccctacttaa gctccttaag caaaagagaa ccttgggcct ccaantttgg ccctttnggt 420  
acaaaaagaa aggnat 436

<210> 29

<211> 391

<212> DNA

<213> Homo sapiens

<400> 29

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gttcgagccg ggcagtgggg tccgcatcgt ggtggagtac tgtgaaccct gcggcttcga 120  
ggcgacctac ctggagctgg ccagtgtgtt gaaggagcag tatccgggca tcgagataga 180  
gtcgcgcctc gggggcacag gtgttttttna gatagagata aatggacagc tgggtttctc 240  
caagctggag aatngggggt ttccttatga gaaagatctt cattgaggcc atccgaagag 300  
ccagtaatng agaaacccta gaaaagatca ccaacagccg tccttccttg cgtncatcct 360  
gttnacttnc acaaggattc ttgggtttcc t 391

<210> 30

<211> 386

<212> DNA

<213> Homo sapiens

<400> 30

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gggtccgcat cgtggtggag tactgtgaac cctgcggcct cgaggcgacc tacctggagc 120  
tggccagtgc tgtgaaggag cagtatccgg gcacgcagat cgagtcgcgc ctccgggggca 180  
caggtgcttt gagatagaga taaatggaca gctggtgttc tccaagctgg agaatggggg 240  
ctttccctat gagaaagatc ttcattgagg ccattccgaag agccagtaat gggagaaacc 300  
cttagaaaag attcaccaac agccgttcct ccctggcggt cattccttgt tgaattgcac 360  
agggattttg gggtttctntg ttttgt 386

<210> 31

<211> 348

<212> DNA

<213> Homo sapiens

<400> 31

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cagtgtctgt aaggagcagt atccgggcat cgagatcgag tcgcgcctcg ggggcacagg 120  
tgctttgaga tagagataaa tggacagctg gtgtttcca agctggagaa tgggggcttt 180  
ccctatgaga aagatctcat tgaggccatc cgaagagcca gtaatngaga aaccctagaa 240  
aagatcacca acagccgtcc tcccttgctg catcctgtga ctgcacaggg attctggggt 300  
ccttgttctg ttctnngggg tcaaaccttt gggttndctt ttggctct 348

<210> 32

<211> 344

<212> DNA

<213> Homo sapiens

<400> 32  
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cgaggaggtc gagccgggca gtgggggtccg catcgtggtg gactactgtg aacctgcgg 120  
cttcgaggcg acctacctgg agctggccag tgctgtnaag gagcagatc cgggcatcga 180  
gatcgagtcg cgcctcgggg gcacagggtg ctttnagata gagataaatg gacagctggt 240  
gttctccaag ctggagaatg gggggctttc cctatgagaa agatctcatt gaggccatcc 300  
gaagngccag taaatggaga aacctagaa aagatcacca acag 344

<210> 33  
<211> 532  
<212> DNA  
<213> Homo sapiens

<400> 33  
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ataaataaaa tctgtggcat cagacaggta ttaccgaggc gaagagtggg ctgggctttc 120  
gtgggcactt acctgggaa gggggtatga ggtggctgga gaagtgttca tggagagtgt 180  
ctctctctg cccccaaggc cactggaatct tctattcctt ctttgtaccc aaagggcaaa 240  
gtggaggcca ggggtctctt gctaaggagc taagtagggg aaagaggcag ggggagctcc 300  
cagcaggacc aaaggagagc caaggttttg accccagaac agagcaggaa cccagagtcc 360  
tgtgcagtca caggatgacg caggaggagc ggctgttggg gatcttttct aggggtttctc 420  
cattactggc tcttcggatg gcctcaatga gatctttctc atagggaag ccccatctct 480  
ccagcttgga gaacaccagc tgtccattta tctctatctc aaaggcacct gt 532

<210> 34  
<211> 309  
<212> DNA  
<213> Homo sapiens

<400> 34  
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gaggtcgagc cgggcagtggt ggtccgcacg gtggtggagt actgtgaacc ctgcggcttc 120  
gaggcgacct acctggagct ggccatgctg tgaaggagca gtatccgggc atcgagatcg 180  
agtcgcgcct cgggggcaca ggtgcctttg agatagagat aaatngacan ctgggtgttct 240  
tcaagctgga gaatgggggc tttccctatg agaaagatct cattgaggnc atncaagag 300  
ccataatgg 309

<210> 35  
<211> 571  
<212> DNA  
<213> Homo sapiens

<400> 35  
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ataaaaatct gtggcatcag acagggtatta ccgaggcgaa gactggactg ggctttcgtg 120  
ggcacttacc ctgggaaggg ggtatgaggt tggctggaga agtgttcatt gagagtgtct 180  
ctctctgccc cccaaggcca cggaatcttc tattccttct ttgtacccaa agggcaaaagt 240  
ggaggccagg gtctcttttg taaggagcta agtaggggaa agaggcaggg ggagctccca 300  
gcaggaccaa agggagacca aggtttggac ccagaacag agcaggaacc cagagtcctg 360  
tgcagtcaca ggatgacgca gggaggacgg ctnttggtag tcttttctag ggtttctcca 420  
ttactggctc ttcggatggc ctcaatgaga tctttctcag gggaaagccc cattctccag 480  
cntggagaac accagctgtc canttatctc tatctcaaan gcacctgtgc cccgaagcgc 540  
gactcgattt tcgatgcccg gatactgctc c 571

<210> 36  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 36  
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 cgtggtgag tactgtgaac cctgcggctt cgaggcgacc tacctggagc tggccagtg 120  
 tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc ctccggggca caggtgcttt 180  
 gagatagaga taaatggaca gctggtgttc tccaagctgg agaatggggg ctttcccctg 240  
 agaaagatct catttaggcc cat 263

<210> 37  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<400> 37  
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 agaataaata aaatctgttg catcagacag gtattaccga ggcgaagagt ggactgggct 120  
 ttcgtgggca cttaccctgg gaagggggta tgaggtggct ggagaagtgt tcatggagag 180  
 tgtctctctc ctgcccccaa ggccacggaa tcttctattc cttctttgta cccaaagggc 240  
 aaagtggagg ccagggtctc tttgctaagg agctaagtag gggaaagagg caggggganc 300  
 tcccagcagg accaaaggga gaccaagggt tggaccccag aacagagcag gaacccagag 360  
 tccctgtgca gtcacaggat gacgcangga ggacggctgt tggatgattt ttctagggtt 420  
 tctccattac tggctcttgc gatggcctca atgagatctt tctcataggg aaagccccc 480  
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<210> 38  
 <211> 290  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
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 ccgaggaggt cgagccgggc agtggggctc gcatcgtggt ggagtactgt aaaccctgcg 120  
 gcttcgaggc gacctacctg gagctggcca gtgctgtnaa ggagcagtat ccgggcatcg 180  
 agatcgantc gcgcctcggg ggcacagggt cctttaagat agagataaat ggacagctgg 240  
 tgttctccaa gctngagaat gggggctttn cctatgagaa agatctcatt 290

<210> 39  
 <211> 320  
 <212> DNA  
 <213> Homo sapiens

<400> 39  
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 gaaggagcag tatccgggca tcgagatcga gtcggcctc nggggcacag gtnctttgag 120  
 atagagataa atggacagct ggtgttctcc aagctggaga atgggggctt tncctatgag 180  
 aaagatctca ttgaggccat ccgaagagcc agtaatggag aaacctagaa aagttcacca 240  
 acagccgtcc ttcctnctgc attctattga ctgcacagga ttctngggtt cntgctntgt 300  
 ttttgggntc caaacctttg 320

<210> 40  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<400> 40  
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 gagataaatg gacagctggg gttctccaag ctggagaatg ggggctttcc ctatgagaaa 120  
 gatctcattg aggccatccg aagagccagt aatnggagaa accctagaaa agatcaccaa 180  
 cagccgtcct acctgogtca tctgtgact gcacaggact ctgggttct gctctgttct 240

gggggtccaa accttggnet tcctttnggt cccntttggg angttccct tgcctttttt 300  
ccctaattan gttcctagga a 321

<210> 41  
<211> 456  
<212> DNA  
<213> Homo sapiens

<400> 41  
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gggtccgcat cgtggtggag tactgtgaac cctgcggctt cgaggcgacc tacctggagc 120  
tggccagtgc tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc ctcgggggac 180  
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ccaacagtgc atcatcctgt cattccactc ctctagctca ttgaggccat ccgaagagcc 360  
agtaatggag aaaccctaga aaagatcacc aacagccgtc ctccctgcgt catcctgtga 420  
ctgcacagac tctgggttct gctctgttct ggggtc 456

<210> 42  
<211> 458  
<212> DNA  
<213> Homo sapiens

<400> 42  
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gtnttaccna ggcgaagagt ggaactgggct ttcgtgggca cttaccctgg gaagggggta 120  
tgaggtggct ggagaagttt tcatggagag tgtctctctc ctgcccccaa ggccacggaa 180  
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tggacccag aacagngcag gaaccagag tcctgtgcag tcacaggntg acgcaggagg 360  
gacggctntt tggatgattt ttctaagggt tctccttact ggctcttcgg atggcctcaa 420  
tgagnttttc tcatagggaa agcccdcttt tncagttt 458

<210> 43  
<211> 452  
<212> DNA  
<213> Homo sapiens

<400> 43  
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gggcacttac cctgggaagg gggatgagg tggctggaga agtgttcag gagagtgtct 180  
ctctcctgcc cccaaggcca cggaatcttc tattccttct ttgtaccaa agggcaaatg 240  
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gcaggaccaa agggagacca aggtttggac ccagaacag aacaggaccc cagagtctctg 360  
tgcagtcaca ggatgacgca gggaggacgg ctgttgggtga tcttttctag ggtttctoca 420  
ttactggctc ttcggatggc ctcaatgagc ta 452

<210> 44  
<211> 444  
<212> DNA  
<213> Homo sapiens

<400> 44  
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aataaaatct gtggcatcag acaggtatta ccgaggcgaa gagtggactg ggctttcgtg 120  
ggcacttacc ctgggaaggg ggtatgagg ggcgtggaga gtgttcagtg agagtgtctc 180  
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gaggccaggg tctctttgct aaggagctaa gtaggggaaa gaggcagggg gagctcccag 300  
caggaccaaa gggagaccaa ggtttggacc ccagaacaga gcaggaaccc agagtctgt 360  
gcagtcacag gatgacgacg ggaggacggc tggtggtgat cttttctagg gtttctccat 420  
tactggctct tcggatggcc tcaa 444

<210> 45  
<211> 232  
<212> DNA  
<213> Homo sapiens

<400> 45  
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aggtcgagct gggcagtggt gtcgcacatc tgggtggagta ctgtaaacc tgcggcttcg 120  
aggcgaccta cctggagctg gccagtnctg tgaaggagca gtatccgggc atcgagatcg 180  
antcgcgctt cgggggcaca ggtgccttta agatagagat aaatggacag ct 232

<210> 46  
<211> 456  
<212> DNA  
<213> Homo sapiens

<400> 46  
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gggagaataa ataaaatctg tggcatcaga caggtattac cgaggcgaag agtggactgg 120  
gctttcgtgg gcacttacct tgggaagggt gtatgaggtg gctggagaag tgttcatgga 180  
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agctcccagc aggaccaaag ggagaccaag gtttgagacc cagaacagag caggaaccca 360  
gagtctctgt cagtcacagg atgacgcagg gaggacggct gttggtgatc ttttctaggg 420  
tttctccatt actggctctt cggatggctc aatgag 456

<210> 47  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 47  
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atccatggtt gttctctata tggacacgtt agtaaagttc tgggagtcct aagatctaaa 120  
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gaaaggatag ttttgagggt ggtctgcaaa gaaaaaacct ctagaaaaag acaacaaaat 240  
cggccagggt tgggtggtca cgcctgtaac ccagcgcctt tgggaggccg aggcgggcag 300  
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cttttgggan ggcttggggg caggaagaat cgctttgaac ctgggaaggt tggaggttgc 480  
agttgaancc gaggttcgca ccaactgcatt tccagccttg ggggaanagg gcganactcc 540  
gtntccaaaa aataat 556

<210> 48  
<211> 461  
<212> DNA  
<213> Homo sapiens

<400> 48  
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ataaataaaa tctgtggcat cagacaggta ttaccgaggt gaagagtggg ctgggctttc 120  
gtgggcactt accctgggaa ggggtatgag gtggctggag aagtgttcat ggagagtgtc 180  
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ggaggccagg gtctctttgc taaggagcta agtaggggaa aaaggcaggg ggagctccca 300  
gcaggaccaa agggagacca aggtttggac cccagaacag agcaggaacc cagagtcctg 360  
tgacgtcaca ngatgacgca gggaggacgg ctnttggatga tcttttctag ggtttctcca 420  
ttacttgctc ttcggatggc ctcaatgaga tcttttctcat a 461

<210> 49  
<211> 434  
<212> DNA  
<213> Homo sapiens

<400> 49  
gtttgtagcg ccacttttact gccaatagct gacattgccc tgggttaggg gagaataaat 60  
aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc tttcgtgggc 120  
acttaccctg ggaagggggg atgaggtggc tggagaagtg ttcattggaga gtgtctctct 180  
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gaccaaaggg agaccaaggt ttggacccca gaacagagca ggaaccaga gtccctgtgca 360  
gtcacaggat gacgcagggg ggacggctgt tggatgatctt ttctaggggt tctccattac 420  
tggctcttcg gatg 434

<210> 50  
<211> 434  
<212> DNA  
<213> Homo sapiens

<400> 50  
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aaaatctgtg gcatcagaca ggtattaccg aggcgaagag tggactgggc tttcgtgggc 120  
acttaccctg ggaagggggg atgaggtggc tggagaagtg ttcattggaga gtgtctctct 180  
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gccagggtct ctttgctaag gagctaagta ggggaaagag gcagggggag ctcccagcag 300  
gaccaaaggg agaccaaggt ttggacccca gaacagagca ggaaccaga gtccctgtgca 360  
gtcacaggat gacgcagggg ggacggctgt tggatgatctt ttctaggggt tctccattac 420  
tggctcttcg gatg 434

<210> 51  
<211> 459  
<212> DNA  
<213> Homo sapiens

<400> 51  
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aacagccgtc ctccctgcgt catcctgtga ctgcacagga ctctgggttc ctgctctgtt 120  
ctgggggtcca aaccttggtc tcccttttgt cctgctggga gctccccctg cctctttccc 180  
ctacttagct ccttagcaaa gagaccctgg cctccacttt gcccttttgt acaaagaagg 240  
aatagaagat tccgtggcct tgggggacag agagagacac tctccatgaa cacttctcca 300  
gccacctcat acccccttcc cagggttaagt gccacgaaa gccaggtcca ctcttcgcct 360  
cggtaatacc tgtctgatgc cacagatttt atttattctc cctaaccag ggcaatgtca 420  
gctattggca gtaaagtggc gctacaaaca ctaaaaaa 459

<210> 52  
<211> 451  
<212> DNA  
<213> Homo sapiens

<400> 52  
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taggggagaa taaataaaat ctgtggcatc agacaggtat taccgaggcg aagagtggac 120

tgggcttttcg tgggcactta cccctgggaag ggggtatgag gtggctggag aagtgttcat 180  
 ggagagtgtc tctctcctgc ccccaaggcc acggaatctt ctattccttc tttgtacca 240  
 aaggggcaaa gtggaggcca ggggtctctt gctaaggagc taagtagggg aaagaggcag 300  
 ggggagctcc cagcaggacc aaaggagac caaggtttg accccagaac agagcaggaa 360  
 cccagagtcc tgtgcagtca caggatgacg cagggaggac ggctgttggt gatcttttct 420  
 agggtttctc cattactggc tcttcggatg g 451

<210> 53  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<400> 53  
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 tcgtgggcac ttaccctggg aaggggggat gaggtggctg gagaagtgtt catggagagt 180  
 gtctctctcc tgcccccagg gccacggaat cttctattcc ttctttgtac ccaaaggcaa 240  
 agtnnaggcc aggttctctt tgctaaggag ctaagtaggg gaaagaggca gggggagctc 300  
 ccagcaggac caaagggaga ccaaggtttg gacccagaa cagagcagga acccagagtc 360  
 ctgtgcagtc acaggatnac gcaggaggga cggctgttggt tgatcttttc tagggtttct 420  
 ccattactgg ctcttcggat ggctca 447

<210> 54  
 <211> 473  
 <212> DNA  
 <213> Homo sapiens

<400> 54  
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 ttgcagtcac aggatgacgc agggaggacg gctgttggtg atcttttctt agggtttctc 420  
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 <212> DNA  
 <213> Homo sapiens

<400> 55  
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 <212> DNA  
 <213> Homo sapiens

<400> 56

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A1

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agaacagagc	aggaacccag	agtcctgtgc	agtcacagga	tgacgcaggg	aggacggctg	360
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<210> 57  
<211> 427  
<212> DNA  
<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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t						421

<210> 59  
<211> 419  
<212> DNA  
<213> Homo sapiens

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ctcccagcag	gaccaaaggg	agaccaaggt	ttggacccca	gaacagagca	ggaaccacga	360
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<212> DNA  
<213> Homo sapiens

<400> 60



2ms  
A1

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aggaccaaag	ggagaccaag	gtttggaccc	cagaacagag	caggaacca	gagtcctgtg	360
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<211> 418  
<212> DNA  
<213> Homo sapiens

<400> 61

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<210> 62  
<211> 403  
<212> DNA  
<213> Homo sapiens

<400> 62

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<210> 63  
<211> 401  
<212> DNA  
<213> Homo sapiens

<400> 63

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<210> 64  
<211> 432  
<212> DNA  
<213> Homo sapiens

<400> 64

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 <212> DNA  
 <213> Homo sapiens

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 gtgcaatcac aggatgacgc agggaggagc gctgttggtg atcttttcta gggttttctc 420  
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 cagcttgagg aacaccagct g 501

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 <212> DNA  
 <213> Homo sapiens

<400> 66  
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 tccaagctgg agaattggggg ctttccctat gagaagatc tcattgaggc catccgaaga 180  
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 ataaaaanaa anaaaaaann tttgagnggg gncccnganc cnaatttngc ncantnngng 720  
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 <211> 474  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
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 ctttcgtggg cacttaccct gggaaggggg tatgaggtg ctggagaagt gttcatggag 180  
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<210> 68  
<211> 483  
<212> DNA  
<213> Homo sapiens

<400> 68  
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gcagtcacag gatgacgcag ggaggacggc tgttggtgat cttttctagg gtttctccat 420  
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gct 483

<210> 69  
<211> 449  
<212> DNA  
<213> Homo sapiens

<400> 69  
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cgtgggcact taccctggga agggggtatg aggtggctgg agaagtgttc atggagagtg 180  
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ccagcaggac caaagggaga ccaaggtttg gaccccgaga cagagcagga acccagagtc 360  
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<210> 70  
<211> 594  
<212> DNA  
<213> Homo sapiens

<400> 70  
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<211> 389  
<212> DNA  
<213> Homo sapiens

<400> 71  
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tcgtgggcac ttaccctggg aagggggtat gaggtggctg gagaagtgtt catggagagt 180  
gtctctctcc tgcccccaag gccacggaat cttctattcc ttctttgtac ccaaagggca 240

ms  
A1

aagtggagggc	caggggtctct	ttgctaagga	gctaagtagg	ggaaagagggc	agggggagct	300
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cctgtgcagt	cacaggatga	cgcaggggag				389

<210> 72  
<211> 405  
<212> DNA  
<213> Homo sapiens

<400> 72						
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<210> 73  
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<212> DNA  
<213> Homo sapiens

<400> 73						
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agtctgtg	agtcacagga	tgacgcaggg	aggacg			396

<210> 74  
<211> 392  
<212> DNA  
<213> Homo sapiens

<400> 74						
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cctgtgcagt	cacaggatga	cgcaggggag	ac			392

<210> 75  
<211> 372  
<212> DNA  
<213> Homo sapiens

<400> 75						
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372

<210> 76  
<211> 380  
<212> DNA  
<213> Homo sapiens

<400> 76  
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cgtgggcact taccctggga aggggggatg aggtggctgg agaagtgttc atggagagtg 180  
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<210> 77  
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<210> 78  
<211> 386  
<212> DNA  
<213> Homo sapiens

<400> 78  
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gagtggactg ggctttcgtg ggcacttacc ctgggaaggg ggtatgaggt ggctggagaa 180  
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gaggcagggg gagctcccag caggaccaa gggagaccaa ggtttggacc ccagaacaga 360  
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<210> 79  
<211> 451  
<212> DNA  
<213> Homo sapiens

<400> 79  
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gccagggtct ctttgctaag gagctaagta ggggaaagag gcagggggat ctcccagcag 300  
gaccaaaggg agaccaaggt ttggacccca gaacagagca aggaaccag agtcctgtgc 360  
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